

Media release

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| HOLDBACK PERIOD | none |
| DOCUMENT | 3 pages |
| ATTACHMENTS | photos |

Warsaw, 25. September 2017

Stadler Polska and Solaris Tram at TRAKO 2017

TRAKO is the largest and most prestigious rail transport fair in Poland, and second meeting of the rail transport industry in Europe. During this year's edition Stadler Polska will present multiple units produced in Stadler's Siedlce factory for the Hungarian carrier GYSEV and Norwegian State Rail NSB. This will also be a debut of Solaris Tram – a joint venture of Stadler and Solaris. Tramino tram for the German city of Leipzig will be displayed on exhibition tracks.

Electric low-floor multiple-unit FLIRT for Hungarian operator GYSEV

Hungarian regional operator GYSEV Zrt. has ordered 10 four-car electric multiple units of FLIRT type for regional operation in September 2016. The first vehicles are expected to start service in 2018. Between 2013 and 2015 GYSEV has already purchased 10 EMUs from Stadler, which means that with this order the operator will expand its fleet to a total number of 20 FLIRT trains. The new vehicles for GYSEV already meet the requirements of the newest TSI (Technical Specification for Interoperability) standards of the European Railway Agency, and also comply with the latest crash collision norms (EN 15227), providing more safety to the train driver. During the development phase Stadler engineers have put special emphasis on low energy consumption. Maintenance friendly design was also an important aspect. The new FLIRT feature spacious, multifunctional boarding areas that enable rapid passenger exchange. Thanks to the multifunctional areas and the high low-floor share, the vehicles are easily approachable by passengers with wheelchairs, bicycles and strollers. Meeting the requirements of today's standards, the vehicles are equipped with air-conditioning, monitoring system, Wi-Fi, charging sockets for electronic devices, as well as box seats suitable for regional transport.

Electric low-floor multiple-unit FLIRT for Norwegian railways NSB

NSB has ordered 107 five-car electric multiple units of the FLIRT type from Stadler. Of these 107 trains, 71 are used for suburban rail transport in the Oslo area and specifically adopted to travel times of up to 90 minutes. The other 36 vehicles are used in Southern Norway and are specifically designed to make journeys of up to three hours a pleasant experience. The trains are homologated for a maximum speed of 200 km/h and perfectly adapted to the harsh winter conditions in Norway. During the further development of the

established FLIRT range for NSB, Stadler engineers focused on travel comfort for families, the elderly and disabled. Wide entrance areas, air-conditioned passenger compartments, strong soundproofing and transparent, open interior design all together contribute to an improved passenger well-being.

Tramino Tram for German city Leipzig

The trams for Leipzig boast a total length of 37.63 and a width of 2.3 meters and consist of four modules. The stylistic concept of the vehicle is the outcome of close collaboration of the customer and design studio IFS Design which allowed for the optimization of the tram in terms of comfort, ergonomics, as well as habits and wishes of the tram drivers in Leipzig. In order to ensure maximum aesthetic cohesion and to reduce noise generated by equipment mounted on the vehicle, it has been fitted with roof screens. Specially designed lighting panels were installed in the ceiling, adapting the colour and intensity of light to weather conditions. Designers have included four extremely broad, 1500 milimetre wide double-leaf doors and two one-leaf, 800 milimetre wide doors in the vehicle. The passenger information system has been improved by equipping the vehicle with special external displays for passengers entering the tram, mounted over the double-leaf doors.

Stands and vehicles display:

- Stadler stand: **Hall A No 24**
- Solaris Tram stand: **Hall A No 43**

- Official presentation of GYSEV's FLIRT vehicle:

26th of September 2017, at 11:40 a.m., exhibition track No 4, free entrance

- **Presentation of FLIRT vehicle for NSB:** exhibition track No 4, free entrance
- **Presentation of Tramino vehicle:** exhibition track A, free entrance

About Stadler

Stadler has been building trains for 75 years. The system provider of rail vehicle construction solutions is headquartered in Bussnang in Eastern Switzerland, and has a workforce of over 7000 based in various locations across Switzerland, Germany, Spain, Poland, Hungary, the Czech Republic, Italy, Austria, the Netherlands, Belarus, Algeria, UK and the United States. Stadler provides a comprehensive range of products in the heavy and urban transport segments: High-speed trains, intercity trains, regional and commuter rail trains, underground trains, tram trains and trams. Furthermore, Stadler also manufactures main-line locomotives, shunting locomotives and passenger carriages, including the most powerful diesel-electric locomotive in Europe. Stadler is the world's leading manufacturer in the rack-and-pinion rail vehicle industry.

More Stadler figures: The best-selling FLIRT (Fast Light Intercity- and Regional Train) vehicle has already sold over 1400 units in a total of 17 countries. The KISS (the name is an acronym of the German for Comfortable Innovative Speedy Suburban Train) is also very popular: It has sold 270 units in 10 countries. The most powerful diesel-electric locomotive in Europe, the EURO4000, has sold 130 units in 7 countries.

Additionally, Stadler Service maintains vehicle fleets comprising over 680 vehicles that cover a combined annual distance of 120 million kilometers in 16 different countries.

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About Solaris Tram

Solaris Tram Sp. z o.o. is a joint venture company of Stadler and Solaris Bus & Coach. It has commenced its operations on April 1st, 2017. The company is headquartered in the Środa Wielkopolska facility where tram car bodies are produced and lacquered. The company is employing 250 people, of which 52 are engineers. Currently the plant is undergoing technological modernization aimed at increasing its production capacity.

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